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#3
PATENT
P-3454-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): MAAYAN, Eduardo et al.

SERIAL NO.: 10/023,469

EXAMINER:

FILED: December 20, 2001

GROUP ART UNIT: 2818

FOR.: AN NROM NOR ARRAY

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, this Information Disclosure Statement includes:

1. ☒ Documents including patents, publications, and other information listed on the attached Form PTO-1449 for consideration by the Examiner;
2. ☐ Form PTO-1449 which lists documents including patents, publications and other information for consideration by the Examiner but in accordance with 37 C.F.R. 1.98(d) does not include those documents which have been previously cited or submitted to the Patent Office in the following prior application U.S. Serial No. _____, filed _____, which was properly identified and relied on.
3. ☐ Other information for the Examiner's consideration which was cited in a communication from a foreign patent office in a counterpart foreign application.

The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the

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listed documents do not constitute "prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document.

This Information Disclosure Statement is being filed:

I) ☒ Within three (3) months of filing the subject Application or entry of the subject Application into the national stage or before mailing of the first Office Action on the merits whichever event occurs last pursuant to of 37 C.F.R §1.97 (b); or

II) ☐ After the period specified in (I) but before the mailing date of either a final Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311 whichever occurs first;

1. ☐ The undersigned hereby states that each item of information listed on the Form PTO-1449 was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement; or

2. ☐ the undersigned hereby authorizes the Patent Office to charge the fee in the amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649.

III) ☐ After the period in (I) and (II) but before the payment of the issue fee,

1. The Undersigned hereby states:

a) ☐ that each item of information cited on the form PTO-1449 was cited in a communication from a foreign Patent Office in a counterpart

foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement; or

b) ☐ that no items of information contained in Form PTO-1449 was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; and

2. ☐ The Undersigned hereby authorizes the Patent Office to charge the Petition fee in the Amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649.

Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 05-0649.

Respectfully submitted,

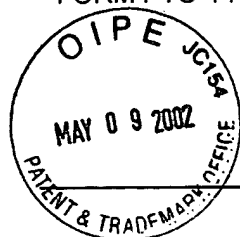
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
P-3454-USAPPLICATION NO.
10/023,469INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Boaz EitanCONFIRMATION NO.
3554FILING DATE
12/20/01GROUP
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U.S. PATENT DOCUMENTS

EXAM. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,895,360	07/15/1975	Cricchi et al.			
	4,016,588	04/05/1977	Ohya et al.			
	4,017,888	04/12/1977	Christie et al.			
	4,151,021	04/24/1979	McElroy			
	4,173,766	11/06/1979	Hayes			
	4,173,791	11/06/1979	Bell			
	4,281,397	07/28/1981	Neal et al.			
	4,306,353	12/22/1981	Jacobs et al.			
	4,342,149	08/3/1982	Jacobs et al.			
	4,360,900	11/23/1982	Bate			
	4,380,057	04/12/1983	Kotecha et al.			
	4,388,705	06/14/1983	Sheppard			
	4,389,705	06/21/1983	Sheppard			
	4,471,373	09/11/1984	Shimizu et al.			
	4,527,257	07/02/1985	Cricchi			
	4,586,163	04/29/1986	Koike			
	4,630,085	12/16/1986	Koyama			
	4,667,217	05/19/1987	Janning			
	4,742,491	05/03/1988	Liang et al.			
	4,780,424	10/25/1988	Holler et al.			
	4,847,808	07/11/1989	Kobatake			
	4,870,470	09/26/1989	Bass, Jr. et al.			
	4,916,671	04/10/1990	Ichiguchi			
	4,941,028	07/10/1990	Chen et al.			
	5,021,999	06/4/1991	Kohda et al.			
	5,075,245	12/24/1991	Woo et al.			
	5,117,389	05/26/1992	Yiu			
	5,168,334	12/1/1992	Mitchell et al.			
	5,172,338	12/15/1992	Mehrotra et al.			
	5,175,120	12/29/1992	Lee			

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

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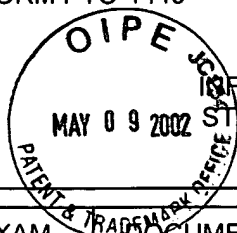
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	5,214,303	05/25/1993	Aoki			
	5,241,497	08/31/1993	Komarek			
	5,260,593	11/9/1993	Lee			
	5,268,861	12/07/1993	Hotta			
	5,289,412	02/22/1994	Frary et al.			
	5,293,563	03/8/1994	Ohta			
	5,305,262	04/19/1994	Yoneda			
	5,311,049	05/10/1994	Tsuruta			
	5,315,541	05/24/1994	Harari et al.			
	5,338,954	08/16/1994	Shimoji			
	5,345,425	09/6/1994	Shikatani			
	5,349,221	09/20/1994	Shimoji			
	5,350,710	09/27/1994	Hong et al.			
	5,359,554	10/25/1994	Odake et al.			
	5,375,094	12/20/1994	Naruke			
	5,393,701	02/28/1995	Ko et al.			
	5,394,355	2/28/1995	Uramoto et al.			
	5,399,891	03/21/1995	Yiu et al.			
	5,412,601	05/02/1995	Sawada et al.			
	5,414,693	05/09/1995	Ma et al.			
	5,418,176	5/23/1995	Yang et al.			
	5,418,743	5/23/1995	Tomioka et al.			
	5,422,844	06/06/1995	Wolstenholme et al.			
	5,424,978	06/13/1995	Wada et al.			
	5,426,605	06/20/1995	Van Berkel et al.			
	5,434,825	07/18/1995	Harari			
	5,450,341	09/12/1995	Sawada et al.			
	5,450,354	09/12/1995	Sawada et al.			
	5,467,308	11/14/1995	Chang et al.			
	5,477,499	12/19/1995	Van Buskirk et al.			

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EXAM. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,495,440	02/27/1996	Asakura			
	5,521,870	05/28/1996	Ishikawa			
	5,523,251	06/04/1996	Hong			
	5,553,018	09/03/1996	Wang et al.			
	5,583,808	12/10/1996	Brahmbhatt			
	5,599,727	02/04/1997	Hakozaki et al.			
	5,623,438	04/22/1997	Guritz et al.			
	5,654,568	08/05/1997	Nakao			
	5,656,513	08/12/1997	Wang et al.			
	5,661,060	08/26/1997	Gill et al.			
	5,683,925	11/04/1997	Irani et al.			
	5,712,814	01/27/1998	Fratin et al.			
	5,726,946	03/10/1998	Yamagata et al.			
	5,751,037	05/12/1998	Aozasa et al.			
	5,754,475	05/19/1998	Bill et al.			
	5,768,192	06/16/1998	Eitan			
	5,777,919	07/07/1998	Chi-Yung et al.			
	5,787,036	07/28/1998	Okazawa			
	5,793,079	08/11/1998	Georgescu et al.			
	5,825,686	10/20/1998	Schmitt-Landsiedel et al.			
	5,834,851	11/10/1998	Ikeda et al.			
	5,836,772	11/17/1998	Chang et al.			
	5,841,700	11/24/1998	Chang			
	5,847,441	12/8/1998	Cutter et al.			
	5,862,076	01/19/1999	Eitan			
	5,864,164	01/26/1999	Wen			
	5,870,335	02/09/1999	Khan et al.			
	5,946,558	08/31/1999	Hsu			
	5,949,728	09/07/1999	Liu et al.			
	5,963,412	10/05/1999	En			

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	5,963,465	10/05/1999	Eitan			
	5,973,373	10/26/1999	Krauschneider et al.			
	5,990,526	11/23/1999	Bez et al.			
	5,991,202	11/23/1999	Derhacobian et al.			
	6,011,725	01/04/2000	Eitan			
	6,018,186	01/25/2000	Hsu			
	6,020,241	02/01/2000	You et al.			
	6,028,324	02/22/2000	Su et al.			
	6,030,871	02/29/2000	Eitan			
	6,034,403	03/07/2000	Wu			
	6,063,666	05/16/2000	Chang et al.			
	6,081,456	06/27/2000	Dadashev			
	6,128,226	10/3/2000	Eitan et al.			
	6,134,156	10/17/2000	Eitan			
	6,137,718	10/24/2000	Reisinger			
	6,163,048	12/19/2000	Hirose et al.			
	6,201,282	03/13/2001	Eitan			
	08/902,890	07/30/1997	Eitan			
	08/905,286	07/30/1997	Eitan			
	09/211,981	12/14/1998	Eitan			
	09/348,720	07/06/1999	Eitan			
	09/413,408	10/06/1999	Eitan			
	09/536,125	03/28/2000	Eitan et al.			
	09/761,818	01/18/2001	Eliyahu et al.			

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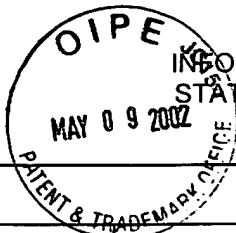
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FOREIGN PATENT DOCUMENTS

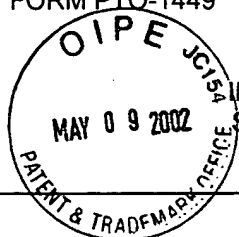
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EP 0693781	01/24/1996					
	EP 0751560	01/02/1997					
	EP 1073120	01/31/2001					
	GB 2157489	10/23/1985					
	JP 09162314	06/20/1997					
	JP 404226071	08/14/1992					
	JP 04291962	10/16/1992					
	JP 05021758	01/29/1993					
	JP 07193151	07/28/1995					
	WO 96/15553	05/23/1996					
	WO 99/31670	06/24/1999					

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Ricco, Bruno et al., "Nonvolatile Multilevel Memories for Digital Applications," <u>IEEE</u> , Vol. 86, No 12, pages 2399-2421, December, 1998.
	"2 Bit/Cell EEPROM Cell Using Band-To-Band Tunneling For Data Read-Out," <u>IBM Technical Disclosure Bulletin</u> , U.S. IBM Corp. NY Vol. 35, No. 4B, ISSN:0018-8689, pp. 136-140, September, 1992.
	Tseng, Hsing-Huang et al., "Thin CVD Stacked Gate Dielectric for ULSI Technology", <u>IEEE</u> , 0-7803-1450-6, pp. 321-324, 1993.
	Pickar, K.A., "Ion Implantation in Silicon," <u>Applied Solid State Science</u> , Vol. 5, R. Wolfe Edition, Academic Press, New York, pp. 151-249, 1975.
	Bhattacharyya et al., "FET Gate Structure for Nonvolatile N-Channel Read-Mostly Memory Device," <u>IBM Technical Disclosure Bulletin</u> , U.S. IBM Corp. Volume 18, No. 6, page 1768, November, 1975.
	Bude et al., "EEPROM/Flash Sub 3.0 V Drain-Source Bias Hot carrier Writing", <u>IEDM</u> 95, pp. 989-992.
	Bude et al., "Secondary Electron Flash - a High Performance, Low Power Flash Technology for 0.35 um and Below", <u>IEDM</u> 97, pp. 279-282.
	Bude et al., "Modeling Nonequilibrium Hot Carrier Device Effects", <u>Conference of Insulator Specialists of Europe</u> , Sweden, June, 1997.

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